

ABSTRACT

Data is stored by utilizing a first operating mode and a second operating mode. In one embodiment, in the first operating mode, a continuous replication method is utilized to store data on a primary storage system and to generate a backup version of the data on a backup storage system. While data is being stored in accordance with the first operating mode, one or more activities performed by the data storage system(s) are monitored. As long as the monitored activity or activities display a first status, the first operating mode is maintained. If the monitored activity or activities display a change in status, the first operating mode is suspended, and data is stored pursuant to the second operating mode. In one embodiment, in the second operating mode, a delta replication method is utilized to store data on the primary storage system and to back up the data on the backup storage system.